

RF POWER TRANSISTOR
2SC2312
27MHz,12V, 17W
NPN Epitaxial Planar Type

GENERAL DISCRIPTION

MITSUBISHI 2SC2312 is a silicon NPN epitaxial planar type transistor specifically designed for linear amplifiers operating in HF. band.

FEATURES

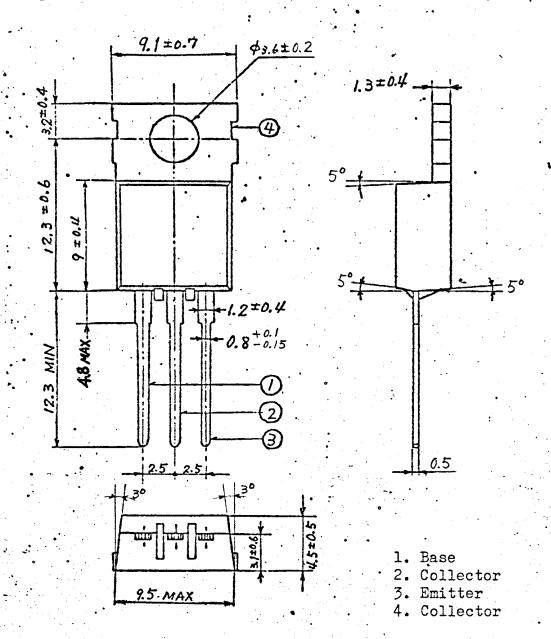
- 1. High Output, High Gain : Po=17W, Gpe=10.5dB; @27MHz, 12V
- 2. Low IMD. 3rd; -30dB(TYP), 11th; -62dB(TYP), and higher order IMD bellow than -65dB. @ Vcc=13.5V, Po=14W
- 3. Convenient plastic molded package.

APPLICATIONS

Especially suitable for the output stage of 27MHz 4W AM/ 12W SSB transceiver sets.

TRANSISTOR SPEC. SHEET	DRAWN APPROVI		ii, M.Ko	uava.								
Туре	APPROVED K. Kriermoki 77-7 2SC2312										·	
Application	RF - Power Amplification											
Structure	Silicon NPN Epitaxial Planar Type											
Outline	l	See Fig. 1										
	V <u>CBO</u>	V EBO	V CEO	I <u>c</u>	I	P_C	P _	T	_iT	'_≾t≥	Ta.	
			RBE=∞			Tc= 25°C		_			25 ±3 °C	
Max. Ratings	60 V	5 V	20 V	6_A	A	25W	:	W +1	50°C _:	55 ~ 150 C		
Caracteristics		Symbo]	Symbol Test Con			nditions			Limits Min. Typ.		Unit	
Emitter to Base Breakdown Voltage		V(BR)ER	30	$I_{\rm E} = 5 \text{m}^2$	= 5mA			5	175.	Max.	V	
Collector to Base Breakdown Voltage		V(BR)CI						60			V	
Collector to Emitter Breakdown Voltage								20			\ v	
Collector to Cutoff Current					CB = 30V					500	Aıç	
Emitter Cutoff Current				$V_{\rm EB} = 4V$						100	μA	
DC Forward Current Transfer Ratio				V _{CE} = 12		. 100mA		20	50	180		
Output Power		Po	1	V _{CC} = 12V, f =				17	18.5		 	
Collector Efficiency		ης		Pin = 1.		•		.60	70		%	
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Fig. 1 Outline Drawing



All dimensions in mm

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Datasheets for electronic components.